

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1336595

Luminaire Tested: P3A05R15B2750DE010 E3CA451MB_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R15B2750DE010 E3CA451MB_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 80CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

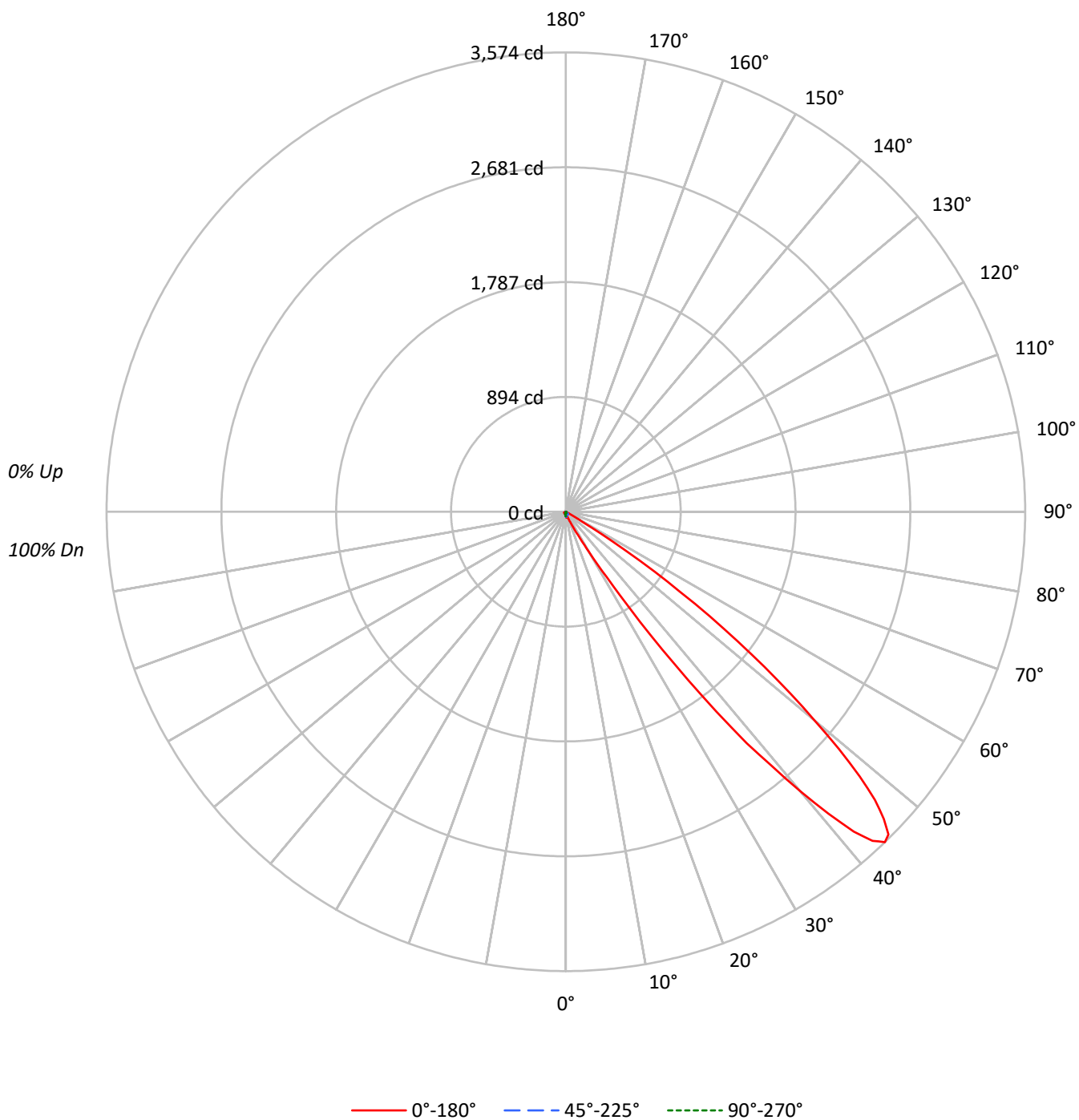
Lumens per Lamp: N/A
Luminaire Lumens: 399.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7763	7763	7763	7763	7763
5°	9641	8585	7000	6119	6053
10°	9485	7348	5411	4787	4876
15°	7855	5244	3882	3973	4245
20°	13651	4177	2964	3430	3897
25°	30413	5008	2395	3170	3653
30°	90976	6153	2127	3114	3823
35°	350168	6933	1927	3186	4042
40°	812780	6040	1832	3292	4322
45°	1100858	4559	1613	3566	4683
50°	863187	2729	1637	3787	5151
55°	414303	1223	1529	4091	5620
60°	37848	175	1403	4342	6271
65°	4151	0	1245	4566	6797
70°	1026	0	1539	4873	7373
75°	1017	339	2033	5422	8388
80°	1010	1010	2526	5556	9092
85°	1006	1006	4026	5032	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1100858 cd/sqm

TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.8
10°-20°	6.3	1.6
20°-30°	15.1	3.8
30°-40°	82.5	20.7
40°-50°	199.9	50.1
50°-60°	79.7	20.0
60°-70°	6.9	1.7
70°-80°	3.9	1.0
80°-90°	1.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	24.4	6.1
0°-40°	106.9	26.8
0°-60°	386.5	96.9
0°-90°	399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	399.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	44	39	32	28	28	4
15°	35	23	17	18	19	12
25°	126	21	10	13	15	76
35°	1308	26	7	12	15	924
45°	3550	15	5	12	15	2504
55°	1084	3	4	11	15	1010
65°	8	0	2	9	13	20
75°	1	0	2	6	10	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
2.5°	39.8	39.8	40.2	39.8	39.8	39.8	39.8	39.4	39.4	39.4	38.2
5°	43.8	43.8	43.8	43.8	43.4	43.4	43.4	43.0	43.0	42.6	39.0
7.5°	45.4	45.4	45.0	45.0	44.6	44.6	44.2	43.8	43.4	43.0	37.4
10°	42.6	42.6	42.6	42.2	42.2	41.8	41.4	41.0	40.6	39.8	33.0
12.5°	37.8	37.8	38.2	37.8	37.4	37.0	36.2	35.8	35.4	34.6	27.5
15°	34.6	34.6	34.6	34.2	33.8	33.0	32.6	31.8	31.4	30.2	23.1
17.5°	44.2	44.2	43.8	43.0	41.4	40.2	38.2	36.6	34.6	32.2	19.9
20°	58.5	58.5	57.7	56.9	54.9	52.9	49.7	46.9	43.8	41.0	17.9
22.5°	84.7	85.9	83.5	80.8	78.0	73.2	68.8	64.5	58.9	54.1	18.3
25°	125.7	126.9	125.7	119.4	114.2	107.8	99.5	90.7	81.2	72.4	20.7
27.5°	203.7	204.5	202.5	187.0	178.6	161.9	147.2	132.9	117.0	101.1	22.7
30°	359.3	359.6	346.9	315.9	288.4	251.8	220.8	191.0	165.9	140.4	24.3
31°	473.0	461.9	434.8	397.4	353.7	304.3	261.8	223.2	185.8	158.3	24.7
32°	600.7	599.1	554.2	489.3	430.9	369.2	305.1	255.8	212.8	175.4	25.1
33°	769.8	770.6	699.8	623.4	527.5	444.8	360.8	293.2	241.5	195.7	25.9
34°	1034.0	971.9	888.8	785.3	654.8	530.3	421.3	336.6	267.3	215.2	25.9
35°	1308.1	1245.6	1154.1	997.4	818.4	644.1	493.3	383.1	298.4	236.3	25.9
36°	1615.2	1562.3	1423.9	1223.8	995.4	751.5	569.7	436.8	329.0	255.4	25.5
37°	1947.0	1869.5	1715.9	1497.5	1191.9	902.7	662.8	490.1	359.6	276.1	24.7
38°	2284.0	2214.0	2020.2	1755.7	1426.7	1062.2	755.9	541.5	387.9	291.6	23.5
39°	2539.4	2501.2	2309.1	2013.5	1614.0	1213.4	851.8	596.4	417.7	307.1	22.3
40°	2839.4	2777.7	2595.5	2229.9	1835.6	1367.4	945.7	644.9	442.4	319.5	21.1
41°	3113.1	3035.1	2805.2	2451.9	2013.1	1505.8	1034.8	695.0	462.3	326.6	20.3
42°	3347.8	3257.1	3016.8	2642.1	2161.5	1616.4	1106.0	730.8	481.0	332.6	19.1
43°	3499.8	3421.4	3185.1	2784.9	2288.4	1717.9	1172.4	768.2	492.5	336.6	17.5
44°	3573.8	3494.6	3265.9	2874.4	2366.4	1778.7	1215.4	794.1	505.3	341.7	16.3
45°	3549.9	3469.6	3248.4	2876.0	2390.6	1800.6	1233.7	805.6	512.0	346.5	14.7
46°	3440.5	3384.0	3161.2	2801.2	2344.5	1777.2	1223.4	796.9	509.6	346.5	13.1
47°	3287.0	3222.5	3010.5	2672.7	2232.7	1716.7	1181.6	770.2	494.9	338.6	11.5
48°	3077.7	3022.8	2800.0	2468.6	2061.2	1585.0	1087.3	726.9	471.8	323.0	9.9
49°	2815.1	2738.7	2531.5	2207.6	1837.6	1398.0	963.6	653.7	434.8	301.2	8.8
50°	2530.3	2436.0	2276.0	1946.2	1606.5	1198.7	800.9	552.6	382.7	272.5	8.0
51°	2251.4	2155.5	2003.1	1722.6	1359.8	994.6	646.1	441.2	315.1	233.1	6.8
52°	1962.1	1881.8	1711.1	1490.7	1164.1	806.0	538.3	373.2	261.8	195.7	5.6
53°	1674.1	1619.2	1456.9	1233.7	935.3	658.4	439.6	319.5	228.4	167.5	4.4
54°	1385.7	1325.6	1202.3	1003.4	753.9	519.6	372.8	267.3	198.1	146.0	4.0
55°	1083.7	1052.7	938.9	765.0	571.3	414.5	302.4	230.0	165.9	122.1	3.2
56°	834.7	799.7	695.8	555.0	424.5	324.6	244.7	187.8	140.4	102.2	2.4
57°	546.6	510.8	442.0	387.5	309.1	236.7	187.0	148.0	114.2	84.7	2.0
58°	323.0	290.4	279.7	238.7	206.1	160.7	138.1	110.2	84.3	66.8	1.2
59°	148.4	150.8	134.1	125.7	114.2	102.2	83.9	73.6	57.7	48.1	0.8
60°	86.3	81.6	79.6	71.2	63.3	56.1	50.5	44.6	36.2	31.0	0.4
62.5°	29.4	28.2	29.0	26.3	24.7	23.9	21.9	18.7	15.5	12.7	0.0
65°	8.0	8.0	7.6	7.2	6.8	6.4	6.0	5.2	4.8	4.0	0.0



TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.8	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.2	1.2	0.0
70°	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4
75°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	35.4	35.4	35.4	35.4	35.4	35.4
2.5°	36.6	35.0	33.0	31.8	31.4	31.0
5°	35.0	31.8	29.4	27.8	27.5	27.5
7.5°	31.4	27.8	25.5	24.7	24.3	24.3
10°	27.5	24.3	22.3	21.5	21.9	21.9
12.5°	23.1	20.3	19.5	19.5	19.9	20.3
15°	18.7	17.1	17.1	17.5	18.3	18.7
17.5°	15.5	14.7	15.1	15.9	16.7	17.5
20°	12.7	12.7	13.5	14.7	15.9	16.7
22.5°	10.7	11.1	12.3	13.5	15.1	15.9
25°	9.2	9.9	11.1	13.1	14.7	15.1
27.5°	8.0	9.2	10.7	12.7	14.3	15.1
30°	6.8	8.4	10.3	12.3	14.3	15.1
31°	6.4	8.0	9.9	12.3	14.3	15.1
32°	6.0	8.0	9.9	12.3	14.3	15.1
33°	5.6	7.6	9.9	11.9	14.3	15.1
34°	5.2	7.6	9.9	12.3	14.3	15.1
35°	4.8	7.2	9.5	11.9	13.9	15.1
36°	4.4	7.2	9.5	11.9	14.3	15.1
37°	4.0	7.2	9.5	11.9	13.9	15.1
38°	4.0	6.8	9.2	11.9	13.9	15.1
39°	3.6	6.4	9.2	11.9	13.9	15.1
40°	3.2	6.4	8.8	11.5	13.9	15.1
41°	2.8	6.0	8.8	11.5	13.9	15.1
42°	2.4	6.0	8.8	11.5	13.9	15.1
43°	2.0	5.6	8.4	11.5	13.9	15.1
44°	2.0	5.6	8.4	11.5	13.9	15.1
45°	1.6	5.2	8.0	11.5	13.9	15.1
46°	1.6	5.2	8.0	11.1	13.9	15.1
47°	1.2	5.2	8.0	11.1	13.9	15.1
48°	1.2	4.8	8.0	11.1	13.9	15.1
49°	0.8	4.8	8.0	11.1	13.9	15.1
50°	0.8	4.8	7.6	11.1	13.9	15.1
51°	0.8	4.8	7.6	11.1	13.9	15.1
52°	0.8	4.4	7.6	11.1	13.9	15.1
53°	0.8	4.4	7.6	11.1	13.9	15.1
54°	0.8	4.4	7.2	11.1	13.9	15.1
55°	0.8	4.0	7.2	10.7	13.9	14.7
56°	0.8	4.0	7.2	10.7	13.9	14.7
57°	0.8	4.0	6.8	10.7	13.9	14.7
58°	0.8	3.6	6.8	10.3	13.5	14.7
59°	0.8	3.6	6.4	10.3	13.5	14.3
60°	0.8	3.2	6.4	9.9	13.1	14.3
62.5°	0.8	2.8	5.6	9.5	12.7	13.5
65°	0.8	2.4	5.2	8.8	12.3	13.1



TEST NUMBER: P1336595

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MB_4000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.4	4.8	8.4	11.5	12.7
70°	0.8	2.4	4.4	7.6	11.1	11.5
72.5°	1.2	2.4	4.0	7.2	10.3	10.7
75°	1.6	2.4	3.6	6.4	9.5	9.9
77.5°	1.6	2.4	3.2	5.6	8.4	8.8
80°	1.6	2.0	2.8	4.4	6.8	7.2
82.5°	1.6	2.0	2.0	3.6	5.2	5.6
85°	1.2	1.6	1.6	2.0	3.6	4.0
87.5°	1.2	1.6	0.8	1.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)